

# 41005 API 6A Series Control Valves

The 41005 API 6A Series consist of single ported, cage guided control valves designed to meet API 6A standard for high pressure applications:

## High Pressure Body/Bonnet

This forged globe body contains a durable metal seal between the body and bonnet providing a tight seal while handling pressures up to 15K.

## Integral Cage Seat-Ring Trim Design

The 41005 API 6A trim design offers an Integral Seat-ring /Cage for easy maintenance. Available as a linear flow characteristic, it is offered with standard trim, single stage Lo-db and Double stage Lo-db.

## Leakage Class

Meets class IV & V leakage is standard as per IEC-60534-4.

## Hardened Trim

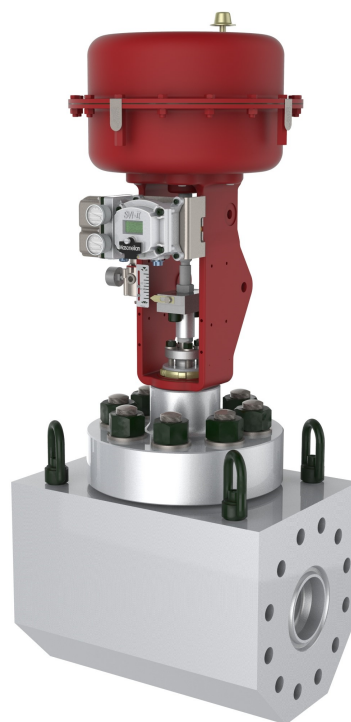
Hardened trim provides protection and longer trim life for expected high pressure applications.

## Packing

Standard and low emission LE packing available, Consult Factory for certification details.

## Nace Compliance

The 41005 API 6A Series is available for Sour Service Applications using design and construction methods in accordance with ANSI/NACE MR0175/ISO 15156-1.



## Size and ratings

**Pressure ratings: API class from 10 kPSI [690 bar] to 15 kPSI [1034 bar]**

## End Connections and Shut Off

Valve Size (in)	Valve Ends Size (NPS)	Body Rating	Packing Material	Seat Type	Temperature Range								Seat Leakage Class IEC 60534-4 / ANSI/ FCI 70-2	
					St. St. F6NM		St. St. F51		St. St. F55		Inconel 718 TM			
					Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
3"	4" 1/16	API 10K / API 15K	PTFE	Metal	-76°F (-60°C)	+356°F (+180°C)	-50°F (-46°C)	+356°F (+180°C)	-50°F (-46°C)	+356°F (+180°C)	-76°F (-60°C)	+356°F (+180°C)	IV	V
4"	5" 1/8													
6"	7" 1/16													
8"	9"													
10"	11"													

### Notes:

- For F51 material construction only 10K body rating is available
- 41005 API 6A should be closed only for a short period of time. There is a risk of damaging trim parts for a long period of closing.
- Lifting lugs are provided for easy handling
- Cage mechanical pressure drop is limited as follows: 7252 PSI [500 bar] for double cage, 4351 PSI [300 bar] for single stage Loddb, 870 PSI [60 bar] for ported cage.